

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-35 (canceled)

36. (new) Niobium powder, wherein after sintering at a temperature of 1100°C to 1300°C for 10 minutes and anodized using a formation voltage of 10Vf to 50Vf at 60°C, has a capacitance of at least 65,000 CV/g and a DC leakage of less than 5.0 na/CV.

37. (new) The niobium powder of claim 36, wherein said capacitance is from 65,000 to about 250,000 CV/g.

38. (new) The niobium powder of claim 36, wherein said capacitance is from about 75,000 to about 250,000 CV/g.

39. (new) The niobium powder of claim 36, wherein said capacitance is from about 100,000 to about 250,000 CV/g.

40. (new) The niobium powder of claim 36, wherein said capacitance is from about 125,000 to about 250,000 CV/g.

41. (new) The niobium powder of claim 36, wherein said capacitance is from about 100,000 to about 210,000 CV/g.

42. (new) The niobium powder of claim 36, wherein said formation voltage is from about 30 to 50 volts.

43. (new) The niobium powder of claim 36, wherein said niobium powder comprises flaked niobium powder.

44. (new) The niobium powder of claim 36, wherein said niobium powder has a BET surface area of at least about 5.5 m²/g.
45. (new) The niobium powder of claim 36, wherein said niobium powder has a BET surface area of at least about 7.0 m²/g.
46. (new) The niobium powder of claim 36, wherein said niobium powder has a BET surface area of at least about 10 m²/g.
47. (new) The niobium powder of claim 36, wherein said niobium powder has a BET surface area of from 6.0 m²/g to about 12 m²/g.
48. (new) The niobium powder of claim 36, wherein said niobium powder is sintered at a temperature of from about 1200°C to about 1750°C.
49. (new) The niobium powder of claim 36, wherein said formation voltage is 20 to 35 volts.
50. (new) The niobium powder of claim 36, wherein said niobium powder is nitrogen doped.
51. (new) The niobium powder of claim 36, wherein said niobium powder has at least about 100 ppm of nitrogen present.
52. (new) The niobium powder of claim 36, wherein said niobium powder has nitrogen present in an amount of from about 100 ppm to about 5,000 ppm.
53. (new) The niobium powder of claim 36, wherein said niobium powder has a flow of at least about 80 mg/s.
54. (new) The niobium powder of claim 36, wherein said niobium powder has a flow of from about 80 to about 500 mg/s.

55. (new) The niobium powder of claim 36, wherein said niobium powder has a Scott Density of about 35 g/in³ or less.

56. (new) The niobium powder of claim 36, wherein said niobium powder has a Scott Density of from about 10 to about 35 g/in³.

57. (new) The niobium powder of claim 36, wherein said niobium powder has a particle size of from 5 to 80 microns.

58. (new) The niobium powder of claim 36, wherein said niobium powder has an aspect ratio of from about 3 to about 300.

59. (new) The niobium powder of claim 36, wherein said niobium powder comprises agglomerated niobium powder.

60. (new) The niobium powder of claim 36, wherein said niobium powder is an agglomerated powder.

61. (new) The niobium powder of claim 36, wherein said niobium powder has a Scott Density of about 35 g/in³ or less, and a flow of at least about 80 mg/s.

62. (new) The niobium powder of claim 61, wherein said niobium powder has a particle size of from 5 to 80 microns.

63. (new) The niobium powder of claim 62, wherein said niobium powder has an aspect ratio of from about 3 to about 300.

64. (new) The niobium powder of claim 62, wherein said niobium powder is agglomerated.